K032855 1 of 2

510(k) Summary of Safety and Effectiveness: Stryker Spine MAPS System

Proprietary Name:	Stryker Spine MAPS System
Common Name:	Spinal Fixation Appliances
Classification Name and Reference:	Pedicle Screw Spinal System, 21 CFR 888.3070
Proposed Regulatory Class:	Class II
Device Product Code:	87 MNH: Orthosis, Spondyloisthesis Spinal Fixation 87 MNI: Orthosis, Spinal, Pedicle Fixation
For Information contact:	Karen Ariemma Regulatory Affairs Specialist Howmedica Osteonics Corp. 59 Route 17 Allendale, NJ 07401-1677 Telephone: (201) 831-5718 Fax: (201) 831-6038 Email: kariemma@howost.com
Date Summary Prepared:	December 9. 2003

Device Description

The Stryker Spine MAPS System is comprised of screws and connectors. The components are available in a variety of lengths in order to accommodate patient anatomy. The components are fabricated from titanium alloy. The components will be provided non-sterile.

Intended Use

The Stryker Spine MAPS System is a pedicle screw system intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar, and sacral spine: degenerative spondylolisthesis with objective evidence of neurologic impairment, fracture, dislocation, scoliosis, kyphosis, spinal tumor, and failed previous fusion (pseudarthrosis).

The Stryker Spine MAPS System is also indicated for pedicle screw fixation for the treatment of severe spondylolisthesis (Grades 3 and 4) at the L5-S1 vertebra in skeletally mature patients receiving fusion by autogenous bone graft having implants attached to the lumbar and sacral spine (L3 to sacrum) with removal of the implants after the development of a solid fusion mass.

The Stryker Spine MAPS System is also a sacral/iliac screw fixation system indicated for degenerative disc disease (defined as back pain of discogenic origin with degeneration of the disc confirmed by history and radiographic studies), spondylolisthesis, trauma (fracture and/or dislocation), spinal stenosis, deformities (scoliosis, kyphosis and/or lordosis), tumor, pseudoarthrosis and revision of failed fusion attempts.

The Stryker Spine MAPS System is also intended to be used in conjunction with the OSS/Diapason Rods, Opus Spinal System Rods and the Multi-Axis Cross Connectors.

Substantial Equivalence

Equivalency of this device is based on similarities in intended use, materials, and design to other currently marketed spinal systems. Mechanical testing demonstrated comparable mechanical properties to the predicate devices.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

DEC 1 0 2003

Ms. Karen Ariemma
Regulatory Affairs Specialist
Howmedica Osteonics Corporation
59 Route 17
Allendale, New Jersey 07401-1677

Re: K032855
Trade/Device Name: Stryker Spine MAPS System
Regulation Number: 21 CFR 888.3070
Regulation Name: Pedicle screw spinal system
Regulatory Class: II
Product Codes: MNH, MNI
Dated: September 10, 2003
Received: September 12, 2003

Dear Ms. Ariemma:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at (301) 594-4659. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21CFR Part 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/dsma/dsmamain.html

Sincerely yours,

for Mark N. Melkerson

Celia M. Witten, Ph.D., M.D.
Director
Division of General, Restorative
and Neurological Devices
Office of Device Evaluation
Center for Devices and
Radiological Health

Enclosure

K032855 1.1

510(k) Number (if known): K

Device Name: Stryker Spine MAPS System

The Stryker Spine MAPS System is a pedicle screw system intended to provide immobilization and stabilization of spinal segments in skeletally mature patients as an adjunct to fusion in the treatment of the following acute and chronic instabilities or deformities of the thoracic, lumbar, and sacral spine: degenerative spondylolisthesis with objective evidence of neurologic impairment, fracture, dislocation, scoliosis, kyphosis, spinal tumor, and failed previous fusion (pseudarthrosis).

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(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE IF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

Prescription Use ✓ OR Over-The-Counter Use____(Per 21 CFR 801.109)
(Optional Format 1-2-96)

for Mark N Milhorn

(Division Sign-Off)
Division of General, Restorative and Neurological Devices

(510(k) Number K032855